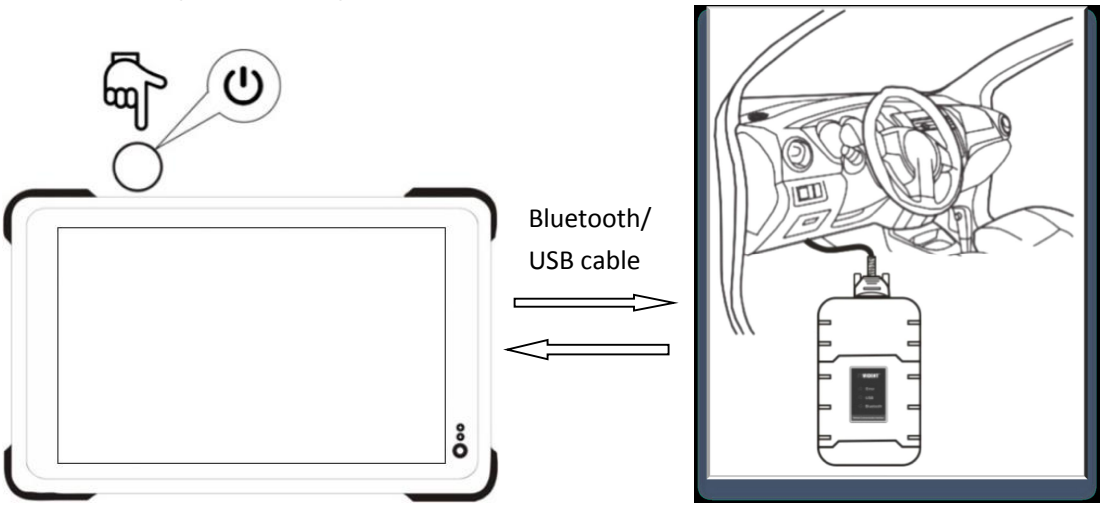
DiagVCI Quick Reference Guide Product Profile

1. Introduction

Through simple Bluetooth communication between VCI connector and iSmart handset, this Android based diagnostic system provides professional diagnosis on more than 100 American, Asian and European vehicle makes. It has access to a vast range of controllers (ABS, airbags, instrument cluster, etc.), live sensor data, and system/component-level bi-directional controls to get the job done faster and with a greater degree of accuracy and prevent dreaded “comeback”. In addition, it has access to the most commonly required service and programming functionality.

Below is a diagram showing how iSmart scan tool works.

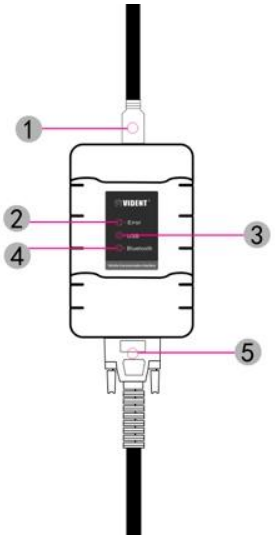


Vehicle Communication Interface(Only applied to 12V vehicles)

(1)The vehicle communication interface (VCI) is used to connect to a vehicle’s diagnostic connector (DLC) via OBDII extension cable to read ECU data and send it to the Tablet. It communicates with the tablet in two ways:

1. USB cable
2. Bluetooth communication

2. Interface Description



1. USB connector port – provides connection between VCI and the tablet via USB cable.
2. Error indicator- illuminates when error occurs while communicating with the tablet.
3. USB indicator – illuminates when the VCI get connected with the tablet via USB cable.
4. Bluetooth indicator – illuminates when the VCI get connected with the tablet via Diagnostic cable.
5. Diagnostic Port - provides connection between VCI and the vehicle.

Specification

Processor	GD32E508RET6
Speed	180 MHz
Connectivity	Bluetooth 4.0,
	USB 2.0;
Input Voltage	DC/12V 2A
Operating Temperature	0 ~ 40°C
Storage Temperature	-20 ~ 60°C

3. FCC Information

FCC ID:2BDGQ-DIAGVCI

FCC Statement

This equipment has been tested and found to comply with the limits for a ClassB digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement.

This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna(s) must not be co-located or conjunction with any other antenna or transmitter.

4. General Notice

For your own safety and the safety of others, and to prevent damage to the equipment and vehicles, read this manual thoroughly before operating your code reader. The safety messages presented below and throughout this user’s manual are reminders to the operator to exercise extreme care when using this device. Always refer to and follow safety messages and test procedures provided by vehicle manufacturer. Read, understand and follow all safety messages and instructions in this manual.

5. Safety Precautions and Warnings

To prevent personal injury or damage to vehicles and/or the scan tool, read this instruction manual first and observe the following safety precautions at a minimum whenever working on a vehicle:

Always perform automotive testing in a safe environment. Wear safety eye protection that meets ANSI standards. Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts. Operate the vehicle in a well-ventilated work area: Exhaust gases are poisonous. Put blocks in front of the drive wheels and never leave the

vehicle unattended while running tests.

Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.

Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.

Keep a fire extinguisher suitable for gasoline/chemical/ electrical fires nearby. Ignition is on or the engine is running.

Keep the scan tool dry, clean, free from oil/water or grease. Use a mild detergent on a clean cloth to clean the outside of the scan tool, when necessary.